

Abstract

A refrigerant circuit (10) is provided with two adsorption heat exchangers (31, 32) in addition to an outdoor heat exchanger (21) and an indoor heat exchanger (22). An adsorbent is carried on the surface of each of the adsorption heat exchangers (31, 32). In the adsorption heat exchanger (31, 32) serving as an evaporator, moisture in the air is adsorbed by the adsorbent. In the adsorption heat exchanger (31, 32) serving as a condenser, moisture is desorbed from the adsorbent and then applied to the air. Then, the air dehumidified or humidified by the adsorption heat exchanger (31, 32) is supplied to a room to cope with latent heat load in the room. On the other hand, in the indoor heat exchanger (22), air is cooled or heated. Then, the air cooled or heated by the indoor heat exchanger (22) is supplied to the room to cope with sensible heat load in the room.